CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-10/979d/CEMENT/2015-16 Date: 23.10.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Technical Manager (West),** KRIDL, PIU, Bangalore.
*NAME OF THE WORK	:	Improvements to roads and drains at Narayanareddy Layout at Abbigere in Ward No. 12 of Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/SSD/PR/101/2015-16 Dated: 21.10.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	21.10.2015
PERIOD OF TESTING	:	21.10.2015 to 23.10.2015

CIVIL ENGINEERING TESTING LABORATORY www.civiltechconsultants.com

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

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VISHWANATH .C
Quality Manager

AE-12
23/10
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ಎಸ್.ಎಂ ರಸ್ತೆ, ರಪಿಲಬ್ರುನಗರ, ಬೆಂಗಳೂರು

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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T-2377

Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-10/979d/SAND-Gradation/2015-16 : 23.10.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, PIU, Bangalore.

*** Name of Work** : Improvements to roads and drains at Narayanareddy Layout at Abbigere in Ward No. 12 of Shettyhalli Sub Division, BBMP, Bangalore.

Reference : AEE/SSD/PR/101/2015-16 Dated: 21.10.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 21.10.2015

Date of Testing : 23.10.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.30	90-100	90-100	90-100	95-100
2.36	77.80	60-95	75-100	85-100	95-100
1.18	59.10	30-70	55-90	75-100	90-100
600 Micron	38.90	15-34	35-59	60-79	80-100
300 Micron	13.20	5-20	8-30	12-40	15-50
150 Micron	2.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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VISHWANATH .C
Quality Manager

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Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-10/979d/AGG/GR/2015-16 : 23.10.2015

TEST REPORT ON COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, PIU, Bangalore.

*** Name of Work** : Improvements to roads and drains at Narayanareddy Layout at Abbigere in Ward No. 12 of Shettyhalli Sub Division, BBMP, Bangalore.

Reference : AEE/SSD/PR/101/2015-16 Dated: 21.10.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 21.10.2015

Date of Testing : 23.10.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.14	95-100	85-100
20	43.02	30-70	0-20
10	13.86	10-35	0-5
4.75	2.02	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

Note:

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VISHWANATH .C
Quality Manager

KE-12

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Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ja@civiltechconsultants.com / info@civiltechconsultants.com

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T-2377

Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-10/979d/CEMENT/2015-16 Date: 27.10.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Technical Manager (West),** KRIDL, PIU, Bangalore.
*NAME OF THE WORK	:	Improvements to roads and drains at Narayanareddy Layout at Abbigere in Ward No. 12 of Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/SSD/PR/101/2015-16 Dated: 21.10.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	21.10.2015
PERIOD OF TESTING	:	24.10.2015 to 27.10.2015

CIVIL ENGINEERING TESTING LABORATORY www.civiltechconsultants.com

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	465 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Note:

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VISHWANATH .C
Quality Manager

A-12

27/10

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#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-10/979d/SAND-Gradation/2015-16 : 27.10.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, PIU, Bangalore.

*** Name of Work** : Improvements to roads and drains at Narayanareddy Layout at Abbigere in Ward No. 12 of Shettyhalli Sub Division, BBMP, Bangalore.

Reference : AEE/SSD/PR/101/2015-16 Dated: 21.10.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 21.10.2015

Date of Testing : 27.10.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.30	90-100	90-100	90-100	95-100
2.36	76.80	60-95	75-100	85-100	95-100
1.18	57.30	30-70	55-90	75-100	90-100
600 Micron	36.90	15-34	35-59	60-79	80-100
300 Micron	10.60	5-20	8-30	12-40	15-50
150 Micron	1.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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VISHWANATH .C
Quality Manager

AE-12

27/10

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#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-10/979d/AGG/GR/2015-16 : 27.10.2015

TEST REPORT ON COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, PIU, Bangalore.

*** Name of Work** : Improvements to roads and drains at Narayanareddy Layout at Abbigere in Ward No. 12 of Shettyhalli Sub Division, BBMP, Bangalore.

Reference : AEE/SSD/PR/101/2015-16 Dated: 21.10.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 24.10.2015

Date of Testing : 27.10.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.32	95-100	85-100
20	42.53	30-70	0-20
10	11.69	10-35	0-5
4.75	1.16	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Quality Manager

AE-12
27/10
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#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-10/979d/CUBE/2015-16 10.11.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

***Agency** : **Technical Manager (West),** KRIDL, PIU, Bangalore.

***Name of the work** : Improvements to roads and drains at Narayanareddy Layout at Abbigere in Ward No. 12 of Shettyhalli Sub Division, BBMP, Bangalore.

***Reference** : AEE/SSD/PR/101/2015-16 Dated: 21.10.2015

***Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{20}

Compressive Strength as on : 7^{th} day

Sample Received on : 10.11.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.11.2015	10.11.2015	8.115	355.6	15.80
2	03.11.2015	10.11.2015	8.137	365.7	16.25
3	03.11.2015	10.11.2015	8.187	379.8	16.88

*Information is furnished by the Customer/Representative.

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Quality Manager

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-10/979d/CUBE/2015-16 01.12.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer**	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
***Agency**	: **Technical Manager (West),** KRIDL, PIU, Bangalore.
***Name of the work**	: Improvements to roads and drains at Narayanareddy Layout at Abbigere in Ward No. 12 of Shettyhalli Sub Division, BBMP, Bangalore.
***Reference**	: AEE/SSD/PR/101/2015-16 Dated: 21.10.2015
***Sample ID**	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
***Grade of Concrete**	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 01.12.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.11.2015	01.12.2015	8.215	478.9	21.28
2	03.11.2015	01.12.2015	8.326	489.6	21.76
3	03.11.2015	01.12.2015	8.287	501.7	22.30

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AE-12

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-10/979d/CUBE/2015-16 12.11.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer**	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
***Agency**	: **Technical Manager (West),** KRIDL, PIU, Bangalore.
***Name of the work**	: Improvements to roads and drains at Narayanareddy Layout at Abbigere in Ward No. 12 of Shettyhalli Sub Division, BBMP, Bangalore.
***Reference**	: AEE/SSD/PR/101/2015-16 Dated: 21.10.2015
***Sample ID**	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
***Grade of Concrete**	: M_{20}
Compressive Strength as on	: 7^{th} day
Sample Received on	: 12.11.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.11.2015	12.11.2015	8.138	364.5	16.20
2	05.11.2015	12.11.2015	8.164	378.2	16.81
3	05.11.2015	12.11.2015	8.215	389.7	17.32

*Information is furnished by the Customer/Representative.

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VISHWANATH .C
Quality Manager

A/c-12

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#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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T-2377

Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-10/979d/CUBE/2015-16 03.12.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*Agency : **Technical Manager (West),** KRIDL, PIU, Bangalore.

*Name of the work : Improvements to roads and drains at Narayanareddy Layout at Abbigere in Ward No. 12 of Shettyhalli Sub Division, BBMP, Bangalore.

*Reference : AEE/SSD/PR/101/2015-16 Dated: 21.10.2015

*Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sample Received on : 03.12.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.11.2015	03.12.2015	8.193	477.2	21.21
2	05.11.2015	03.12.2015	8.312	515.7	22.92
3	05.11.2015	03.12.2015	8.274	494.5	21.98

*Information is furnished by the Customer/Representative.

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VISHWANATH .C
Quality Manager

06-12

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-10/979d/CUBE/2015-16 14.11.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*Agency	: **Technical Manager (West),** KRIDL, PIU, Bangalore.
*Name of the work	: Improvements to roads and drains at Narayanareddy Layout at Abbigere in Ward No. 12 of Shettyhalli Sub Division, BBMP, Bangalore.
*Reference	: AEE/SSD/PR/101/2015-16 Dated: 21.10.2015
*Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 7^{th} day
Sample Received on	: 14.11.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.11.2015	14.11.2015	8.125	363.2	16.14
2	07.11.2015	14.11.2015	8.211	389.4	17.31
3	07.11.2015	14.11.2015	8.169	374.5	16.64

*Information is furnished by the Customer/Representative.

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VISHWANATH .C
Quality Manager

AE-12

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-10/979d/CUBE/2015-16 . 05.12.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*Agency	: **Technical Manager (West),** KRIDL, PIU, Bangalore.
*Name of the work	: Improvements to roads and drains at Narayanareddy Layout at Abbigere in Ward No. 12 of Shettyhalli Sub Division, BBMP, Bangalore.
*Reference	: AEE/SSD/PR/101/2015-16 Dated: 21.10.2015
*Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 05.12.2015

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.11.2015	05.12.2015	8.427	489.3	21.75
2	07.11.2015	05.12.2015	8.353	477.8	21.24
3	07.11.2015	05.12.2015	8.218	471.7	20.96

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VISHWANATH .C
Quality Manager

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-10/979d/CUBE/2015-16 17.11.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
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*Name of the work	: Improvements to roads and drains at Narayanareddy Layout at Abbigere in Ward No. 12 of Shettyhalli Sub Division, BBMP, Bangalore.
*Reference	: AEE/SSD/PR/101/2015-16 Dated: 21.10.2015
*Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 7^{th} day
Sample Received on	: 17.11.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.11.2015	17.11.2015	8.125	370.6	16.47
2	10.11.2015	17.11.2015	8.169	394.5	17.53
3	10.11.2015	17.11.2015	8.235	381.6	16.96

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-10/979d/CUBE/2015-16 08.12.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*Agency	: **Technical Manager (West),** KRIDL, PIU, Bangalore.
*Name of the work	: Improvements to roads and drains at Narayanareddy Layout at Abbigere in Ward No. 12 of Shettyhalli Sub Division, BBMP, Bangalore.
*Reference	: AEE/SSD/PR/101/2015-16 Dated: 21.10.2015
*Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 08.12.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.11.2015	08.12.2015	8.237	471.6	20.96
2	10.11.2015	08.12.2015	8.365	503.2	22.36
3	10.11.2015	08.12.2015	8.219	489.7	21.76

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